

CATALOGUE OF PIMPLINAE (HYMENOPTERA: ICHNEUMONIDAE) FROM PENINSULAR MALAYSIA

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Abstract.—A catalogue of Pimplinae (Hymenoptera: Ichneumonidae) from Peninsular Malaysia which listing 43 species under three tribes and 14 genera is presented. The genus of *Xanthopimpla* (Tribe: Pimplini), *Theronia* (Tribe: Theroniini) has the greatest number of species (21). A total of 14 species were described from Peninsular Malaysia with type specimens deposited in the U.S. National Museum of Natural History—Washington (4), British Natural History Museum—London (3), V. K. Gupta Collection (3), Berlin Museum—Germany (2), and one each in Munich—Germany and Gainesville—U.S.A.

Key Words.—Insecta, Ichneumonidae, Pimplinae, Malaysia, Peninsular Malaysia, Malaya.

Smith (1858) in describing *Pimpla punctator* Smith from Sarawak (East Malaysia) started the systematic study of the Pimplinae from Malaysia. It was followed by Krieger (1897), Cameron (1903) and Tosquinet (1903) who also covered the West of Malaysia (Peninsular Malaysia). Since then, a number of species had been described or recorded from Malaysia (Morley 1913, Cushman 1925, Beeson & Chatterjee 1935, Townes et al. 1961, Gupta 1961, Baltazar 1961, Momoi 1966, Townes & Chiu 1970, Kamath & Gupta 1972, Gupta & Tikar 1976, Kusigemati 1985).

The present catalogue lists the tribes, genera and species of Pimplinae recorded from Peninsular Malaysia. Most of the species listed have notes about the location at which it was collected or recorded. The locations for the type specimens deposited are also indicated (capital letters). Species that have no type or lectotype specimen from Peninsular Malaysia were referred to type or lectotype specimen recorded from other countries especially from the Indo-Australian region. Note that the word 'Malaya' is also referred to 'Peninsular Malaysia' in this catalogue because Peninsular Malaysia was called 'Malaya' before its independent (1957) and during early years after independent.

Museums in which type or lectotype material is located or deposited are abbreviated as follows:

- AMSTERDAM. Afdeling Entomologie, Zoologisch Museum, Universiteit van Amsterdam, Plantage Middenlaan 64, Amsterdam 1004, The Netherlands.
BERLIN. Museum für Naturkunde der Humboldt-Universität zu Berlin, Berlin, Invalidenstrasse 43, Germany.
BUDAPEST. Termesztudományi Múzeum Allattara (Zoological Department of the Hungarian Natural History Museum), 1088 Budapest, Baross-Utca 13, Hungary.
COPENHAGEN. Zoologisk Museum, Universitetsparken 15, DK 2100 København, Denmark.

EBERSWALDE. Institut f. Pflanzenschutzforschung Kleinmachnow, Abt. Taxonomie der Insekten, DDR-13 Eberswalde-Finow 1, Schickler-strasse 5, DDR Germany.

GAINESVILLE. American Entomological Institute, 3005 S. W. 56th Avenue, Gainesville, Florida 32608, U.S.A.

GLASGOW. University Museum, University of Glasgow, Glasgow, Scotland, U.K.

GUPTA. Collection of Virendra Gupta, Located at the American Entomological Institute, 3005 S. W. 56th Avenue, Gainesville, Florida 32608, U.S.A.

HONOLULU. Bernice P. Bishop Museum, Department of Entomology, Honolulu, Hawaii 96819, U.S.A.

LEIDEN. Rijksmuseum van Natuurlijke Historie, Postbus 9517, 2300 RA Leiden, The Netherlands.

LONDON. Department of Entomology, British Museum (Natural History), Cromwell Road, London SW7, 5BD, England.

MUNICH. Zoologische Staatssammlung, Münchhausenstrasse 21, D-8000, München 60, FDR Germany.

OXFORD. Hope Entomological Collections, University Museum, Oxford, OX1 3PW, England.

STOCKHOLM. Naturhistoriska Riksmuseet, Sektionen for Entomologi, 10405 Stockholm, Sweden.

WARSAW. Institut Zoologiczny, Polska Akademia Nauk, ul. Wilcza 64, Warszawa, Poland.

WASHINGTON. U.S. National Museum of Natural History, Smithsonian Institute, Washington, D.C. 20560, U.S.A.

WUFENG. Entomology Collections, Taiwan Agricultural Research.

Other abbreviations are: M = male, F = female, des = description, fig. = figured, syn = synonyms listed.

TRIBE: PIMPLINI

Pimplaetus mucronis (Gupta & Tikar)

Pimplaetus mucronis. Gupta & Tikar, 1976. Oriental Ins. Monogr., 1: 67. M, F. key, des. Type: F, Malacca & Perak (BERLIN).

Flavopimpla nigromaculata mangae Betrem

Flavopimpla nigromaculata mangae: Gupta & Tikar, 1976. Oriental Ins. Monogr. 1: 73, F. key, des., fig. Selangor: Kenny Hills.

Type: F, Taiwan (EBERSWALDE), *Exeristes gracilis* Cushman, 1933. Insecta Matsumurana, 8: 36.; F, India (WASHINGTON), *Calliephialtes bimarginatus* Cushman 1937. Indian Forest Rec. (N. S.) Ent. 3: 141.

Camptotypus rugosus (De Geer)

Trichiothecus ruficeps Cameron, 1903. J. Straits Branch Roy. Asiatic Soc., 39: 137. F. des. Type: F, Sarawak: Kuching (LONDON).

Hemipimpla rugosus: Morley, 1914. Revision of the Ichneumonidae in the British Museum, 3: 97. M, F. key, syn., des. Perak: Tengar.

Camptotypus rugosus: Gupta & Tikar, 1976. Oriental Ins. Monogr., 1: 185, M,

F. key, syn., des., fig. Malacca: Tengah Geh.; N. Sembilan: Seremban; Kedah: Gajah Mati, Gurun, Bukit Bintang; Selangor: Bukit Kutu—900 m.

Zaglyptus Indicus nigrithorax Gupta

Zaglyptus indicus nigrithorax Gupta, 1961. Indian J. Ent., 22: 250. F. key, des. Type: F, Pahang: Lubok Tamang, 3500 ft. (WASHINGTON).

Echthromorpha agrestoria notulatoria (Fab.)

Echthromorpha maculipes Cameron, 1905. J. Straits Branch Roy. Asiatic Soc., 44: 121. [F]. des. Lectotype (designated by Townes, Townes & Gupta 1961): F, Sarawak: Kuching (LONDON). Syn. With *laeva* by Morley 1913.

Echthromorpha notulatoria: Beeson & Chatterjee, 1935. Indian Forest Rec. (N.S.) Ent., 1: 159. Biol. Malay Peninsular. Host: *Hyblaea puera*.

Echthromorpha agrestoria notulatoria: Townes, Townes & Gupta, 1961. Mem. Amer. Ent. Inst., 1: 39. Lectotype design., syn. Malaya.

Xanthopimpla alternans Krieger

Xanthopimpla alternans: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 170. M, F. key, syn., des., fig. Kuala Lumpur; Penang I: Sungei Siru, Tanjung Bungah.

Type: *Xanthopimpla alternans* Krieger, F. Taiwan, Chia (BERLIN); *Xanthopimpla genualata* Krieger, Indonesia: West Sumatera (BERLIN).

Xanthopimpla clivulus clivulus Townes & Chiu

Xanthopimpla clivulus clivulus: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 161. F. key, des., Fig. N. Sembilan: Kuala Klawang, Kampai.

Type: F., Indonesia (GAINESVILLE).

Xanthopimpla curvimaculata pendleburyi Townes & Chiu

Xanthopimpla curvimaculata pendleburyi: Townes & Chiu, 1970. Mem. Amer. Ent. Inst. 14: 264. key, des., Type: F, Selangor: Kuala Lumpur.

Xanthopimpla decurtata detruncata Krieger

Xanthopimpla decurtata detruncata: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 143. M, F. n. status, key, des., fig. Pahang (4200 ft); Penang I.

Type: *Xanthopimpla detruncata*: Krieger, 1914. Arch. F. Naturgesch., (A) 80 (6); 39, 115. F, Taiwan (BERLIN).

Xanthopimpla ecaudata Krieger

Xanthopimpla hispida: Krieger, 1914. Arch. F. Naturgesch., (A) 80 (6): 24. Key; (A) 80 (7): 130. F. des., fig. Perak.

Xanthopimpla hispida: Townes, Townes & Gupta, 1961. Mem. Amer. Ent. Ints., 1: 56. Malaya.

Xanthopimpla hispida: Krieger, 1899. Sitzber. Naturf. Gesell. Leipzig, 1897/98: 70. F. key des., Type: F, Perak (BERLIN). Syn. By Townes & Chiu 1970.

Xanthopimpla enderleini Krieger

Xanthopimpla enderleini: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 118. M, F. Lectotype design., key, syn., des., fig. Selangor: Ulu Langat.

Type: *Xanthopimpla enderleini*: Krieger, 1914. Arch. F. Naturgesch., (A) 80 (6): 35. Indonesia: Sumatera (WARSAW).

Xanthopimpla exigua exigua Krieger

Xanthopimpla exigua exigua: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 203. M, F. n. status, key, syn., des., fig. Selangor: Ulu Langat, 300–390 m.

Xanthopimpla exigua: Krieger, 1914. Arch. F. Naturgesch., (A) 80 (6): 41, 100. M. key, des., fig. Type: M, Sarawak: Lundu (BERLIN).

Xanthopimpla flavolineata Cameron

Xanthopimpla flavolineata: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 114. M, F. key, syn., des., fig. Malaya.

Xanthopimpla emaculata: Kusigemati, 1985. Mem. Kagoshima univ. res. Center S. Pacific, 5: 127. M, F. Pahang: Cameron Highland.

Type: *Xanthopimpla flavolineata*: Cameron, 1907. Tijdschr. V. Ent., 50: 48. F. key, des. Indonesia: West Irian (AMSTERDAM).

Xanthopimpla gampsura Krieger

Xanthopimpla gampsura: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 56. M, F. key, des., fig. Selangor: Beting; Kuala Lumpur; Teluk Merbau: Penang: Ginting.

Type: *Xanthopimpla gampsura*: Krieger, 1914. Arch. F. Naturgesch., (A) 80 (6): 44. Indonesia (BERLIN).

Xanthopimpla glaberrima Roman

Xanthopimpla glaberrima: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 183. M, F. key, syn., des., fig. Penang I.

Type: *Xanthopimpla glaberrima*: Roman, 1913. Arkiv for Zool., 8 (15): 22. Philippines (STOCKHOLM); *Xanthopimpla sauteri*: Krieger, 1914. Arch. F. Naturgesch., (A) 80 (6): 31. Lectotype (designated by Townes, Townes & Gupta 1961), Taiwan (BERLIN).

Xanthopimpla incompleta Krieger

Xanthopimpla incompleta: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 269. F. key, des., fig. Selangor: Kuala Lumpur (WASHINGTON).

Type: *Xanthopimpla incompleta*: Krieger, 1914. Arch. F. Naturgesch., (A) 80 (6): 23. Key; (A) 80 (7): 145. F. des. Indonesia (STOCKHOLM).

Xanthopimpla jacobsoni jacobsoni Krieger

Xanthopimpla jacobsoni jacobsoni: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 172. M, F. n. status, key, syn., des., fig. Kuala Lumpur; Penang I.; Perak: Teluk Anson.

Type: *Xanthopimpla jacobsoni*: Krieger, 1914. Arch. F. Naturgesch., (A) 80 (6): 32. Indonesia: Semarang (BUDAPEST). Host: *Eulemma versicolor*.

Xanthopimpla konowi Krieger

Xanthopimpla konowi: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 48. M, F key, syn., des., fig. Malaya. Host: *Attacus dohertyi*, *Saturnia pyretorum* and other Saturnidae.

Type: *Xanthopimpla konowi*: Krieger, 1899. Sitzber. Naturf. Gesell. Leipzig, 1897/98: 87. F. key, des., fig. Japan (BERLIN); *Xanthopimpla watsoni*: Cameron, 1911. Soc. Ent., 26: 46. M. key, des. Type: M, India: Bengal (LONDON).

Xanthopimpla laticeps liturata Townes & Chiu

Xanthopimpla laticeps liturata: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 181. F. key, des., fig. Type: F, Penang I. (WASHINGTON).

Townes & Chiu 1970. Mem. Amer. Ent. Inst., 14: 372 pp.

Townes, Townes & Gupta 1961. Mem. Amer. Ent. Inst., 1: 532 pp.

Xanthopimpla modesta modesta (Smith) (Gupta 1987); *Xanthopimpla modesta* (Smith) (Yu & Horstmann 1997).

Xanthopimpla modesta modesta: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 106. M, F n. status, key, Syn., des., fig. Selangor: Kepong.

Xanthopimpla latebalteata: Cameron, 1903. J. Straits Branch Roy. Asiatic Soc., 39:137. M. des. Lectotype (designated by Townes, Townes & Gupta 1961): F, Sarawak: Kuching (LONDON). Syn. By Townes & Chiu 1970.

Xanthopimpla naenia Morley

Xanthopimpla naenia: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 268. M, F key, syn., des., fig. Kuala Lumpur.

Type: *Xanthopimpla naenia*: Morley, 1913. Fauna of British India, Hymenoptera, 3: 115. F. key. des., India (OXFORD).

Xanthopimpla pedator (Fab.)

Xanthopimpla pedator: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 39. M, F key, syn., des., fig. Penang I.

Type: *Ichneumon pedator* Fab., 1775. Systema Entomologiae, p. 828. F. des. India (GLASGOW).

Xanthopimpla pulvinaris Townes & Chiu

Xanthopimpla pulvinaris: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 271. M, F key, des., fig. Kuala Lumpur.

Type: F, Taiwan (WUFENG).

Xanthopimpla punctata (Fab.)

Xanthopimpla punctata: Momoi, 1966. Mushi, 40: 4. M, F. Malaya

Xanthopimpla punctata: Kusigemati, 1985. Mem Kagoshima Univ. Res. Center S. Pacific, 5: 127. M, F. des., Perak.

Type: *Xanthopimpla lissonota*: Cameron, 1906. J. Straits Branch Roy. Asiatic Soc., 46: 115. F. des., F. Sarawak: Kuching (LONDON). Syn. By Townes, Townes & Gupta 1961.

Xanthopimpla regina Morley

Xanthopimpla regina: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 43. M, F key, des., fig. Kuala Lumpur.

Type: *Xanthopimpla regina*: Morley, 1913. Fauna of British India, Hymenoptera, 3: 118. M, F key, des. Bangladesh: Sylhet (LONDON).

Xanthopimpla walshae walshae Townes & Chiu

Xanthopimpla walshae walshae: Townes & Chiu, 1970. Mem. Amer. Ent. Inst., 14: 191. F key, des., fig.). Pahang: Fraser's Hill, 400 ft.

Type: F, Indonesia: Java (GAINESVILLE).

TRIBE: THERONIINI

Theronia clathrata malayensis Gupta: Yu & Horstmann (1997) put it under Pimplini

Theronia (Theronia) clathrata malayensis: Gupta, 1962. Pacific Ins. Monogr., 4: 50. F key, des., Type: F, Pahang: Fraser's Hill, 1300 m (LONDON).

Theronia nigrivertex Gupta (in Gupta, 1987); Yu & Horstmann (1997) put it under Pimplini

Theronia (Theronia) nigrivertex: Gupta, 1962. Pacific Ins. Monogr., 4: 45. F key, des. Type: F, Perak: Jor Camp, 550 m, Batang Padang (WASHINGTON). Pahang: Cameron Highlands, Terbukui, 1200 m.

Theronia pseudozebra pseudozebra Gupta

Theronia (Theronia) pseudozebra pseudozebra: Gupta, 1962. Pacific Ins. Monogr., 4: 21. M, F key. des., Pahang: Fraser's Hills, 1300 m, Kedah: Kedah Peak, 1200 m. Penang I.

Type: F, Sabah: Sandakan (WASHINGTON).

Theronia zebra zebra (Vollenhoven)

Theronia (Theronia) zebra zebra: Gupta, 1961. Pacific Ins. Monogr., 4: 16. M, F n. status, key, des., fig. Kuala Lumpur.

Type: *Pimpla zebra*: Vollenhoven, 1879. Stetiner Ent. Ztg., 40: 147. F, des. Indonesia (LEIDEN).

Nomosphacia pyramida pyramida (Gupta) (in Gupta 1987): *Neotheronia pyramida* Gupta (Tribe: Pimplini) (in Yu & Horstmann 1997)

Theronia (Nomosphacia) pyramida pyramida: Gupta, 1962. Pacific Ins. Monogr., 4: 80. M. key, des.

Type: M, Kedah: Kedah Peak, 1200 m. (GUPTA). Momoi 1968. Kontyu, 36(2); 182–185; Gupta, 1987. Mem. Amer. Ent. Inst., 41 (Part 2). Pp 598–1210.

Nomosphacia zebroides zebroides (Krieger)

Theronia (Nomosphacia) zebroides zebroides: Gupta, 1962. Pacific Ins. Monogr., 4: 71. F n. comb., key, des. Penang I' Water Fall garden Host: *Eumenes arcuata*.

Type: *Theronia zebroides*: Krieger, 1906. Ztschr. Syst. Hymen. Dipt., 6: 236. F. des. In key. Type: F, Indonesia: Sumatera (BERLIN).

Epitheronia tomeus (Gupta)

Theronia (*Epitheronia*) *tomeus*: Gupta, 1962. Pacific Ins. Monogr., 4: 96. M, F. key, des. Kedah: Langkawi I.

Type: F, Indonesia (LEIDEN).

TRIBE: NEOXORIDINI = POEMENIINI

Eugata nigrita Gupta

Eugalta nigrita: Gupta, 1980. Oriental Ins., 14: 106. M, F. key, des., fig. Type: F, Perak (MUNICH), Selangor: Bukit Kutu, 3500 ft.

Eugalta santoshale Gupta

Eugata santoshae: Gupta, 1980. Orietal Ins., 14: 99. F. key, des. Selangor: Bukit Kutu, 3500 ft. Type: F, Indonesia (GAINESVILLE).

Achorocephalus nigricollis malayanus (Gupta)

Pseudeugalta nigcollis malayanus: Gupta, 1980. Oriental Ins., 14: 120. M. key, des. Type: M, Perak: Larut Hills, 3700–4000 ft (GUPTA).

Achorocephalus nigricollis malayanus: Gupta, 1985. Oriental Ins., 19: 324. N. comb.

TRIBE: RHYSSINI

Lytarmes maculipeunis maculipennis (Smith)

Megarhyssa variegata: Mocsary, 1905. Ann. Mus. Natl. Hungarici, 3: 2. M. des. Lectotype: Perak (BUDAPEST). Syn. By Kamath & Gupta 1972.

Lytarmes maculipennis variegatus: Townes, Townes & Gupta, 1961. Mem. Amer. Ent. Inst., 1: 84. Lectotype design., n. comb., syn. Malaya.

Lytarmes maculipennis maculipennis: Kamath & Gupta, 1972. Oriental Ins. Monogr., 2: 23. M, F. key, syn., des., fig. Perak; Penag I: Penang Hills, Air Hitam, 300 m; Selangor: Ampang Reservoir; Malacca, Mt. Tengah.

Type: *Rgyssa varilineata*: Cameron, 1907. Ann. & Mag. Nat. Hist., (7) 20; 15. F. des. Sarawak: Kuching (LONDON). Syn. By Gupta & Kamath 1972.

Sychnostigma binarium binarium Kamath & Gupta

Sychnostigma binarium binarium: Kamath & Gupta, 1972. Oriental Ins. Monogr., 2: 135. F. key, des. Type; F, Pahang: Mt. Tahan, 800–1200 m (LONDON).

Sychnostigma flavopictum flavopictum (Smith)

Epirhyssa flavopicta: Morley, 1913. Revision of the Ichneumonidae in the British Museum, 2; 6. F. key, syn. (in part), des. Penag I; Pahang: Mt. Thau, 2500–3500 ft.

Epirhyssa flavopicta: Morley, 1914. Ann. & Mag. Nat. Hist. (8) 14: 409. Malaysia (in part).

Sychnostigma flavopictum: Townes, Townes & Gupta, 1961. Mem. Amer. Ent. Inst., 1: 87. N. comb. Penang I.

Epirhyssa curvimaculata: Cameron, 1907. Ann. & Mag. Nat. Hist., (7) 20; 16. F. des. Lectotype (designated by Kamath & Gupta 1971), F, Sarawak: Kuching (LONDON).

Sychnostigma malayanum Kamath & Gupta

Epirhyssa flavobalteata: Morley, 1913. Revision of the Ichneumonidae in the British Museum, 2: 7, (in part). ♀, Perak: Maxwells's Hill.

Epirhyssa flavobalteata: Morley, 1913. Fauna of British India, Hymenoptera, 3: 88 (in part).

Sychnostigma malayanum: Kamath & Gupta, 1972. Oriental Ins. Monogr., 2: 173. ♀ key, des., fig. Perak: Maxwell's Hill.

Type: Pahang: Cameron Highlands, 1500–1600 m (LONDON).

Sychnostigma nigrobalteatum (Cameron)

Sychnostigma nigrobalteatum: Kamath & Gupta, 1972. Oriental Ins. Monogr., 2: 190. ♀ key, syn., des. Kedah: Kedah Peak, 1100 m.

Epirhyssa nigrobalteata: Cameron, 1903. J. Straits Branch Roy. Asiatic Soc., 39: 134. ♀, des. Lectotype (designated by Townes, Townes & Gupta 1961): ♀, Sarawak: Kuching (LONDON).

Myllenyxis javensis Kamath & Gupta

Myllenyxis javensis: Kamath & Gupta, 1972. Oriental Ins. Monogr., 2: 212. ♂ key, des., fig. Selangor: Kuala Lumpur.

Type: M, Java (GAINESVILLE).

Myllenyxis muelleri (Vollenhoven)

Myllenyxis muelleri: Kamath & Gupta, 1972. Oriental Ins. Monogr., 2: 207. ♀ key, syn., des., fig. Perak.

Epirhyssa nigerrima: Morley, 1913. Revision of the Ichneumonidae in the British Museum, 2: 6. ♀ key, des. Type: ♀, Sarawak (LONDON). Syn. By Kamath & Gupta 1972.

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